Name:

at1113exam: Expand, factor, and solve quadratics (v212)

1. Expand the following expression into standard form.

$$(6x - 5)(6x + 5)$$

2. Solve the equation.

$$(9x + 2)(4x + 7) \;=\; 0$$

3. Expand the following expression into standard form.

$$(9x + 5)^2$$

4. Expand the following expression into standard form.

$$(7x - 4)(2x + 3)$$

5. Solve the equation.

$$8x^2 + 27x + 59 \;=\; 5x^2 - 2x + 3$$

6. Factor the expression.

$$81x^2 - 25$$

7. Solve the equation with factoring by grouping.

$$10x^2 - 15x + 12x - 18 \;=\; 0$$

8. Factor the expression.

$$x^2 + 2x - 63$$